

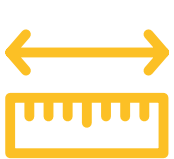
# TPM CNC Turret Punch Press

The Morgan Rushworth TPM CNC Turret Punch Press features an extremely rigid 'O' frame design tested by Finite Element Analysis so that there is minimum deflection in the machine body even under maximum load and ensuring high precision performance.

The machines are designed for high production with up to 1G acceleration when positioning and a maximum speed of 900 strokes per minute when nibbling at 1mm pitch. The 12 station turret features 3 indexable stations as standard which can be fitted with either 3 or 8 station multi tools.



## FEATURES AND BENEFITS



**2540mm  
Processing  
Width**



**1540mm  
Processing  
Length**



**Up to 900  
Strokes  
per Minute**



**1G  
Acceleration**



**Up to 12 Tool  
Stations**



**30 Tonnes of  
Punching Force**

## MACHINE FEATURES

- Extremely rigid 'O' Frame design
- High strength, centrally driven beam fitted with three sheet clamps providing up to 1G acceleration
- Heavy duty and precise sheet clamps with sliding system to prevent sheet jamming.
- High quality ball bearings and linear guides allow extremely precise positioning as well as high speed movement
- Ball transfer and brush table combination
- Moveable table system in Y axis ensuring the material is supported at the edges and reducing vibrations
- 12 station turret including 3 indexable stations (one each of B, C and D stations)
- Capable of producing not only 2D components but when fitted with special tools can create 3D forms up to 8mm deep in 1mm material
- Patented Direct Drive index mechanism.
- Low energy hydraulic system with low and high pressure hydraulic pumps. Energy savings of up to 50% are achievable.
- CE compliant light barrier system
- Ergonomic free standing CNC control console with 15" TFT
- Bosch MTX CNC Control System
- Lantek Nesting Software
- Turret configuration module within the Lantek software allows the editing of the turret layout

## OPTIONAL EQUIPMENT

- Vacuum System for Scrap Removal
- Scrap Conveyor
- Indexable Multi Tools
- Additional license for Lantek CAM Software
- Single punching tools and special forming tools
- Special coated tools for stainless steel



**12 Tool Stations**



**3x Heavy Duty, Sliding Sheet Clamps**

## TECHNICAL SPECIFICATIONS

STOCK CODE		TPM 2515
Punching Force	Tonnes	30
Total Number of Tool Stations		12
No. of Indexable Tool Stations		3
Tool Change Time - Multi Tools	sec	1
Tool Change Time - Turret	sec	3
CNC Controlled Axes		X, Y, Z, C1, C2, T
C1 & C2 Axes Drive Type		Direct Drive
Working Area (X & Y)	mm	2,540 x 1,540
Z Axis Stroke	mm	30
X Axis Repositioning		Yes
X Axis Speed	m/min	100
Y Axis Speed	m/min	80
X & Y Axis Combined Speed	m/min	128
C1 & C2 Rotational Speed	RPM	100
T Rotational Speed	RPM	30
Nibbling Rate - 1mm Pitch	strokes/min	900
Nibbling Rate - 25mm Pitch	strokes/min	580
Maximum Sheet Weight	kg	170
Maximum Sheet Thickness	mm	6.4
Punching Accuracy	mm	± 0.1
Repeatability	mm	± 0.04
Maximum Punching Diameter (for 6.4mm Thickness)	mm	25
Number of Material Clamps		3
Working Height of Table	mm	980
Oil Tank Capacity	litre	300
Motor Power	kW	11
Length	mm	6,060
Width	mm	5,210
Height	mm	2,220
Weight	kg	14,000



